



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 6
1445 ROSS AVENUE, SUITE 1200
DALLAS, TX 75202-2733

H2/RC/EN
LAD981057706

4 June 2009

MEMORANDUM

FROM: CHUCK BARNES, 6EN-HC
Enforcement Officer

A handwritten signature in black ink, appearing to read "Charles Barnes", is written over the typed name and title.

TO: SUNITA SINGHVI, 6EN-HC
Section Chief

Subject: Trip Report for Marine Shale

1. I conducted a corrective action site inspection at the Marine Shale Facility near Amelia, LA, beginning Thursday, April 30, 2009. I was accompanied by Vicky Hadwin from Louisiana Department of Environmental Quality (LDEQ). The purpose of the inspection was to support the LDEQ in the project management of a Department of Justice (DOJ) Consent Decree.
2. I have attached the photographic record of current conditions at the site. Wastes are still present in what appears to be roll-off dumpsters, containers, and old barges.
3. Marine Shale was an incinerator facility for hazardous wastes. It ceased operation and has been idle and abandoned since 1996. A DOJ action resulted in recovering approximately \$7million. Two million has been expended on the initial waste removal. The State of Louisiana is managing the remaining \$5 million to assure final site remediation. Approximately 500 principle responsible parties (PRPs) have been identified with roughly 100 PRP letters sent. An estimate of \$40 million to complete the final clean-up has been made.
4. According to Ms. Hadwin, several large bulk storage tanks containing liquid hazardous wastes were removed for proper disposal. However, much of the solid materials and ash are still present on the site.
5. No samples were collected during the site visit. However, according to Ms. Hadwin, samples have been collected and a Corrective Measure Study (CMS) has been commissioned based on those sample results. A unique aspect of the CMS and the existing legal action is there is not a requirement to implement the corrective measures identified in the CMS.
6. The extent of contamination at the site is unknown at this point.

7. Areas that need additional emphasis and investigation include:
 - a. Ash remaining on site - metals
 - b. Hydraulic fluid remaining on site – metals, organics, etc.
 - c. Barge slip – metals, PCBs, organics
 - d. Refractory bricks – metals, radiation
 - e. Creosote pad – organics, metals, volatiles, semi-volatiles, etc.
 - f. Ash remaining in bag houses and cyclones
 - g. Materials remaining as usable product in the warehouse
8. Conclusions and Recommendations:
 - a. This will be a long term project, probably encompassing over 5 years.
 - b. Additional work will be required.
 - c. Review the CMS once received by LDEQ
 - d. Evaluate corrective action recommendation for adequacy and protection of human health and the environment
 - e. If CMS recommendations are found to be inadequate;
 - i. Contact remaining PRPs for additional funding
 - ii. Conduct additional sampling to define extent of contamination
 - iii. Identify and take interim measures to remove remaining wastes on site
9. Final analysis; more needs to be done at the site but at this point more information is needed before a course of action can be recommended.

Attachment:

Photographic record

cc: Vicki Hadwin, LDEQ

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Official Photograph Log

The following photographs present a graphic image of many different issues to be found at this site.

There are multiple areas that need attention and are potentially very dangerous because of the unknown nature of the site conditions.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Official Photograph Log



Photographer: C Barnes	Date: 4-30-09	Time: 0900 to 1300
City/County: Amelia,		State: LA
Location: Marine Shale Facility		
Subject: Multiple portions of the facility. Ash hopper at base of incinerator bag house		

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

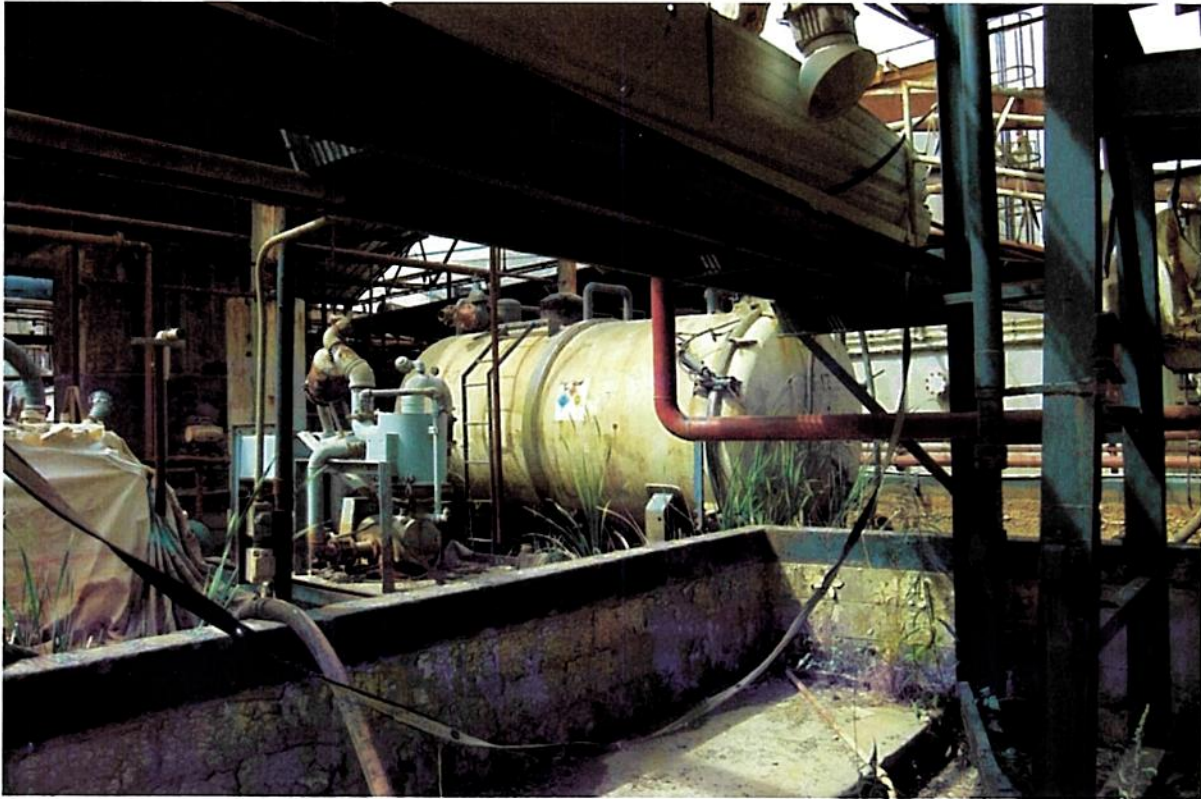
Official Photograph Log



Photographer: C Barnes	Date: 4-30-09	Time: 0900 to 1300
City/County: Amelia,		State: LA
Location: Marine Shale Facility		
Subject: Multiple portions of the facility. Support structures for rotary kiln		

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Official Photograph Log



Photographer: C Barnes	Date: 4-30-09	Time: 0900 to 1300
City/County: Amelia,		State: LA
Location: Marine Shale Facility		
Subject: Multiple portions of the facility. Tankage and pumps with secondary containment		

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Official Photograph Log



Photographer: C Barnes	Date: 4-30-09	Time: 0900 to 1300
City/County: Amelia,		State: LA
Location: Marine Shale Facility		
Subject: Multiple portions of the facility. Standing water inside secondary containment		

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Official Photograph Log



Photographer: C Barnes	Date: 4-30-09	Time: 0900 to 1300
City/County: Amelia,		State: LA
Location: Marine Shale Facility		
Subject: Multiple portions of the facility. Tankage related to rotary kiln		

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Official Photograph Log



Photographer: C Barnes	Date: 4-30-09	Time: 0900 to 1300
City/County: Amelia,		State: LA
Location: Marine Shale Facility		
Subject: Multiple portions of the facility. Rusted drum inside secondary containment area. Note cattails growing inside containment area.		

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Official Photograph Log



Photographer: C Barnes	Date: 4-30-09	Time: 0900 to 1300
City/County: Amelia,		State: LA
Location: Marine Shale Facility		
Subject: Multiple portions of the facility. Broader view of preceding photograph		

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Official Photograph Log



Photographer: C Barnes	Date: 4-30-09	Time: 0900 to 1300
City/County: Amelia,		State: LA
Location: Marine Shale Facility		
Subject: Multiple portions of the facility. Storm drain adjacent to barge slip		

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Official Photograph Log



Photographer: C Barnes	Date: 4-30-09	Time: 0900 to 1300
City/County: Amelia,		State: LA
Location: Marine Shale Facility		
Subject: Multiple portions of the facility. Bulk tanks associated with incinerators operations		

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Official Photograph Log



Photographer: C Barnes	Date: 4-30-09	Time: 0900 to 1300
City/County: Amelia,		State: LA
Location: Marine Shale Facility		
Subject: Multiple portions of the facility. Rotary kiln and associated bulk storage processing facilities		

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Official Photograph Log



Photographer: C Barnes	Date: 4-30-09	Time: 0900 to 1300
City/County: Amelia,		State: LA
Location: Marine Shale Facility		
Subject: Multiple portions of the facility. Bulk material processing facilities. Note standing water at lower left of photograph		

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Official Photograph Log



Photographer: C Barnes	Date: 4-30-09	Time: 0900 to 1300
City/County: Amelia,		State: LA
Location: Marine Shale Facility		
Subject: Multiple portions of the facility. Broad view of rotary kiln, bulk material processing area and standing waters.		

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

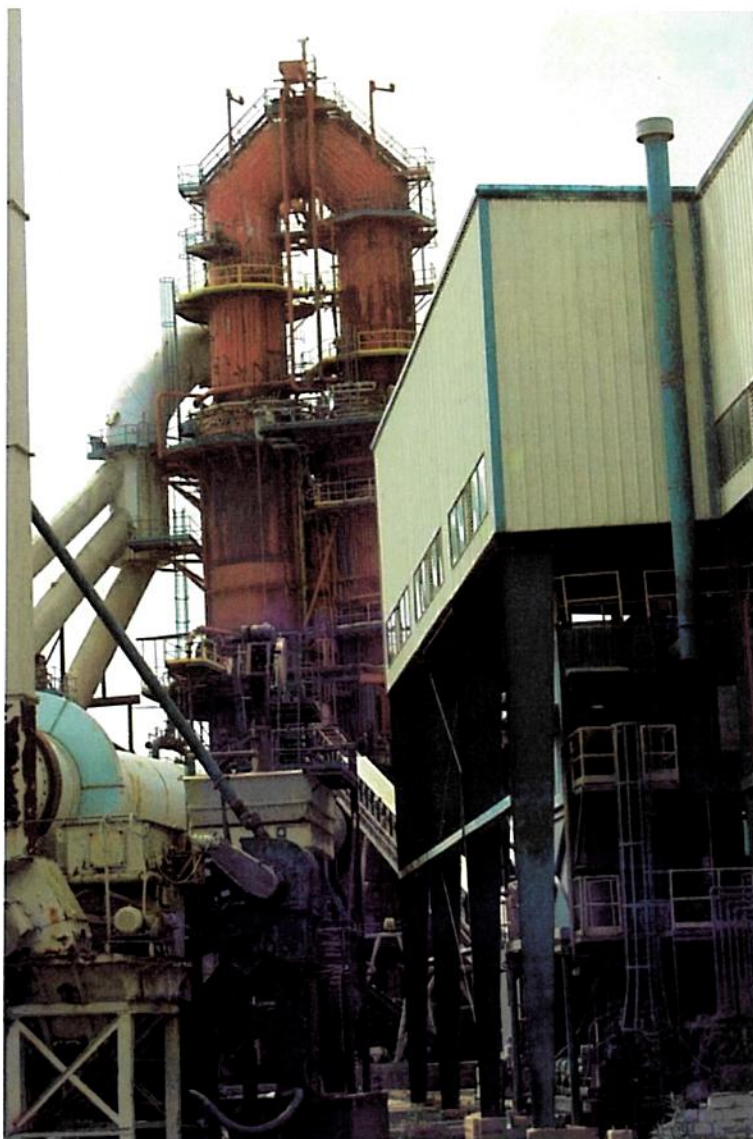
Official Photograph Log



Photographer: C Barnes	Date: 4-30-09	Time: 0900 to 1300
City/County: Amelia,		State: LA
Location: Marine Shale Facility		
Subject: Multiple portions of the facility. Bulk/dry material handling equipment. Note corrosion		

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Official Photograph Log



Photographer: C Barnes	Date: 4-30-09	Time: 0900 to 1300
City/County: Amelia,		State: LA
Location: Marine Shale Facility		
Subject: Incinerator Afterburner		

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Official Photograph Log



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Official Photograph Log



Photographer: C Barnes	Date: 4-30-09	Time: 0900 to 1300
City/County: Amelia,		State: LA
Location: Marine Shale Facility		
Subject: Multiple portions of the facility. Electrical conduit. Copper wire has reportedly been stolen from the facility		

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

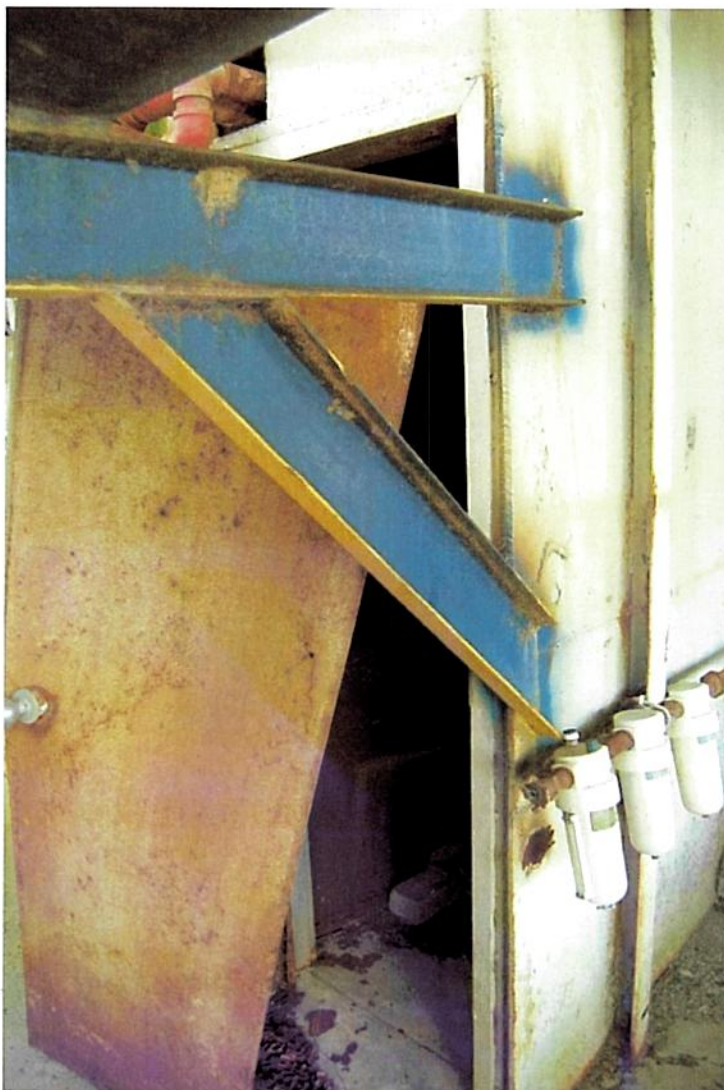
Official Photograph Log



Photographer: C Barnes	Date: 4-30-09	Time: 0900 to 1300
City/County: Amelia,		State: LA
Location: Marine Shale Facility		
Subject: Multiple portions of the facility. Support pilings and barge tie up along canal		

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Official Photograph Log



Photographer: C Barnes	Date: 4-30-09	Time: 0900 to 1300
City/County: Amelia,		State: LA
Location: Marine Shale Facility		
Subject: Multiple portions of the facility. Storm damage to doors & facility equipment		

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

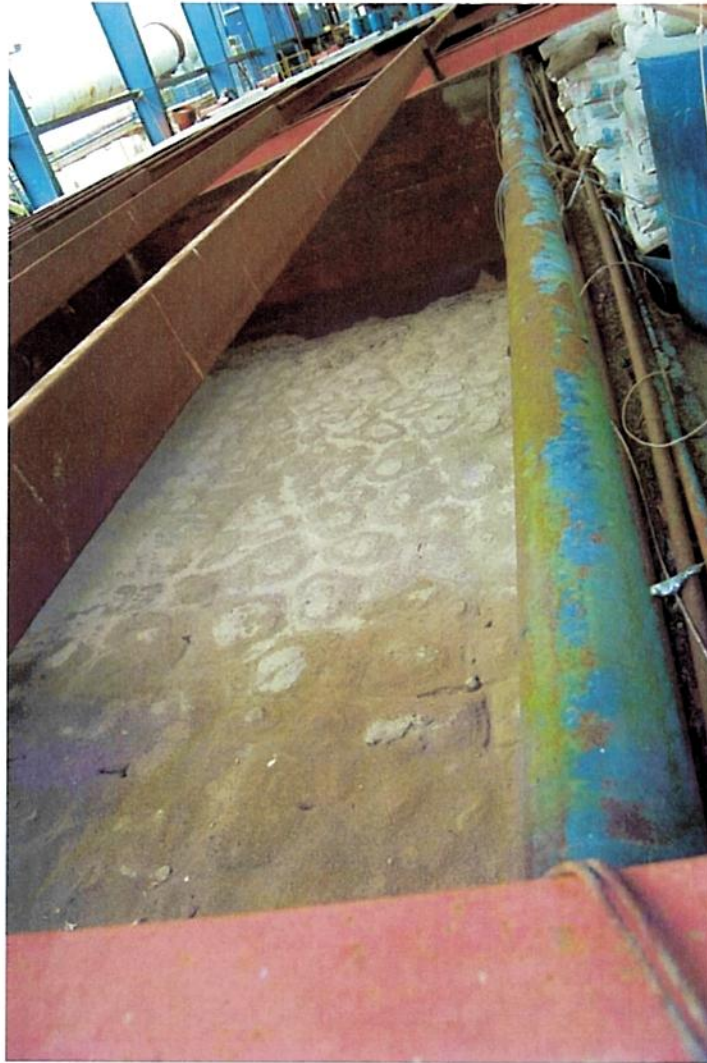
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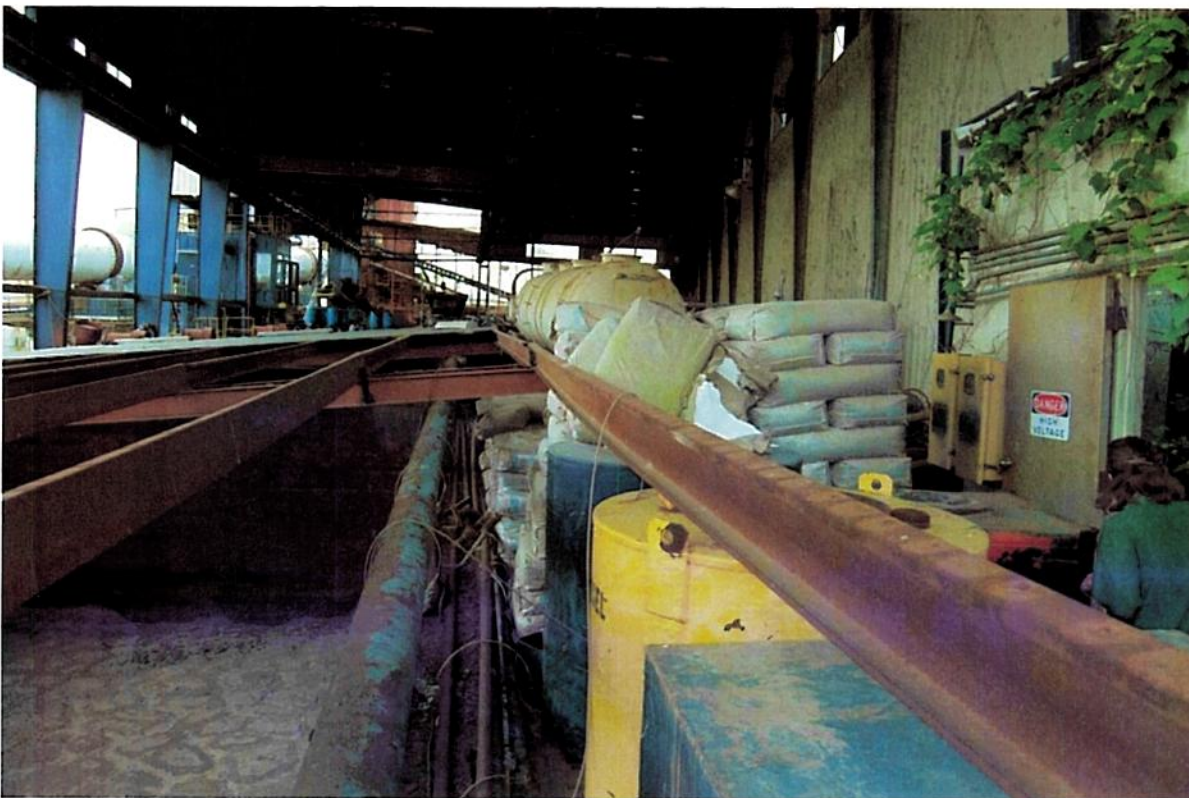
Official Photograph Log



Photographer: C Barnes	Date: 4-30-09	Time: 0900 to 1300
City/County: Amelia,		State: LA
Location: Marine Shale Facility		
Subject: Multiple portions of the facility. Bulk material remaining at the site		

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Official Photograph Log



Photographer: C Barnes	Date: 4-30-09	Time: 0900 to 1300
City/County: Amelia,		State: LA
Location: Marine Shale Facility		
Subject: Multiple portions of the facility. Bulk Receiving & Treatment Area		

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Official Photograph Log



Photographer: C Barnes	Date: 4-30-09	Time: 0900 to 1300
City/County: Amelia,		State: LA
Location: Marine Shale Facility		
Subject: Multiple portions of the facility. Operational equipment storage area		

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Official Photograph Log



Photographer: C Barnes	Date: 4-30-09	Time: 0900 to 1300
City/County: Amelia,		State: LA
Location: Marine Shale Facility		
Subject: Multiple portions of the facility. Rotary Kiln & Control Room		

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Photographer: C Barnes	Date: 4-30-09	Time: 0900 to 1300
City/County: Amelia,		State: LA
Location: Marine Shale Facility		
Subject: Multiple portions of the facility. Operational Storage Area		

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City/County: Amelia,		State: LA
Location: Marine Shale Facility		
Subject: Multiple portions of the facility. Operational Storage Area		

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Official Photograph Log



Photographer: C Barnes	Date: 4-30-09	Time: 0900 to 1300
City/County: Amelia,		State: LA
Location: Marine Shale Facility		
Subject: Multiple portions of the facility. Wastes stored in Operational Storage Area		

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City/County: Amelia,		State: LA
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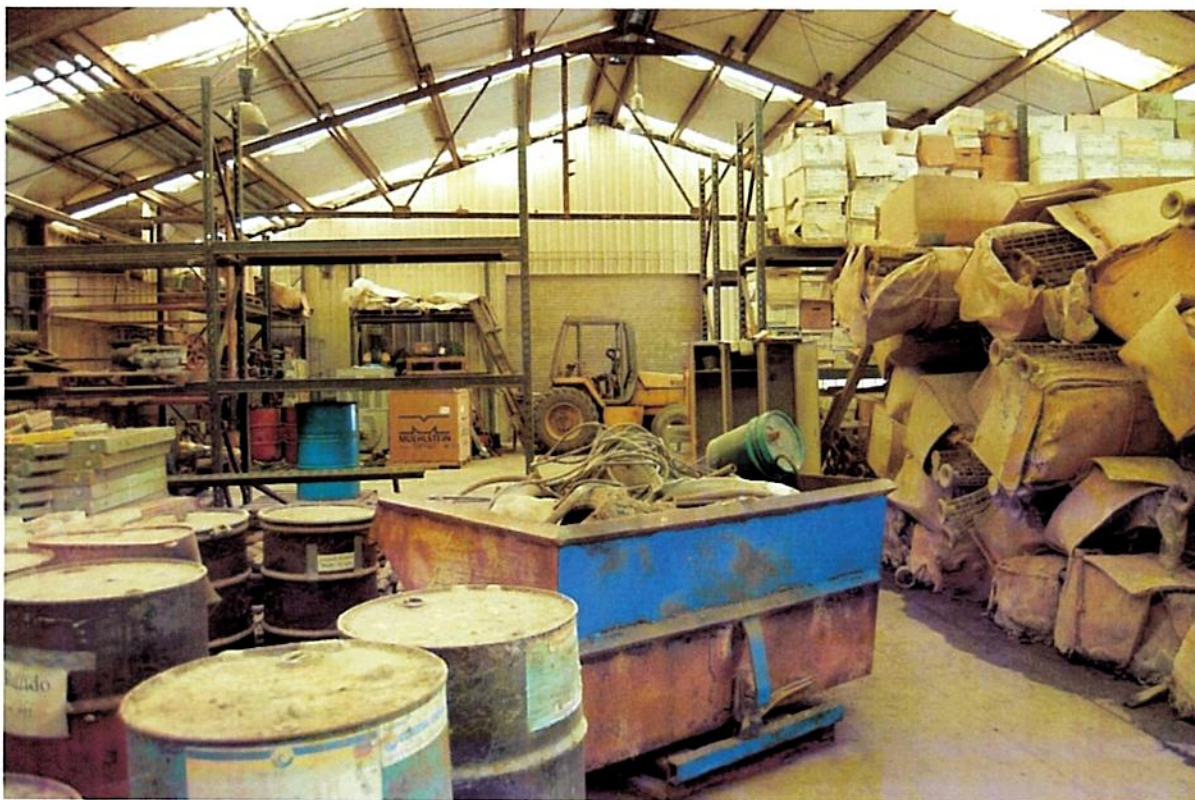
Official Photograph Log



Photographer: C Barnes	Date: 4-30-09	Time: 0900 to 1300
City/County: Amelia,		State: LA
Location: Marine Shale Facility		
Subject: Multiple portions of the facility. Unknown/Unexplained labeling on Drums in Operational Storage Area		

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Official Photograph Log



Photographer: C Barnes	Date: 4-30-09	Time: 0900 to 1300
City/County: Amelia,		State: LA
Location: Marine Shale Facility		
Subject: Multiple portions of the facility. More debris & unknown materials in Operational Storage Area.		

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Photographer: C Barnes	Date: 4-30-09	Time: 0900 to 1300
City/County: Amelia,		State: LA
Location: Marine Shale Facility		
Subject: Multiple portions of the facility.		

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City/County: Amelia,		State: LA
Location: Marine Shale Facility		
Subject: Multiple portions of the facility.		

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Official Photograph Log



Photographer: C Barnes	Date: 4-30-09	Time: 0900 to 1300
City/County: Amelia,		State: LA
Location: Marine Shale Facility		
Subject: Multiple portions of the facility. Pressurized container storage rack – materials in very poor condition. Contents undetermined.		

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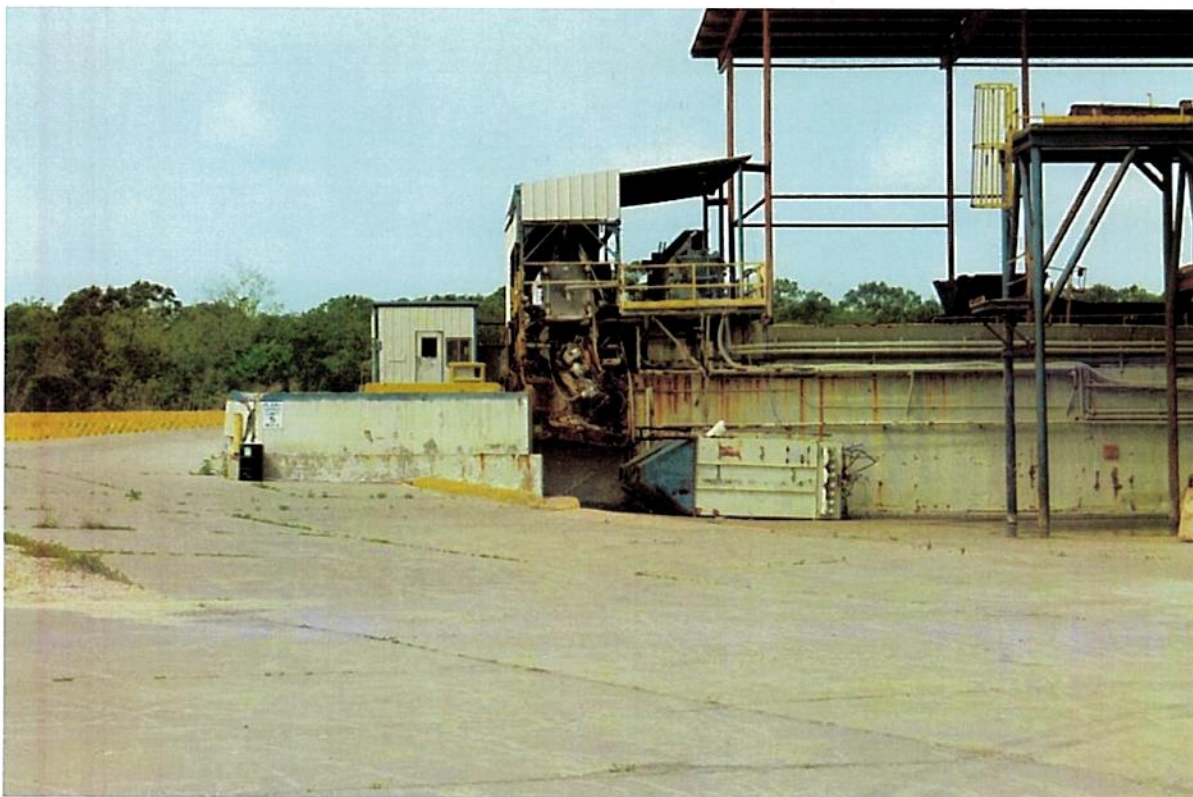
Official Photograph Log



Photographer: C Barnes	Date: 4-30-09	Time: 0900 to 1300
City/County: Amelia,		State: LA
Location: Marine Shale Facility		
Subject: Multiple portions of the facility. Truck unloading terminal. Truck trailer is still inside the facility		

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Official Photograph Log



Photographer: C Barnes	Date: 4-30-09	Time: 0900 to 1300
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Subject: Multiple portions of the facility.		

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Official Photograph Log



Photographer: C Barnes	Date: 4-30-09	Time: 0900 to 1300
City/County: Amelia,		State: LA
Location: Marine Shale Facility		
Subject: Multiple portions of the facility. Headquarters building		

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Official Photograph Log



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Official Photograph Log



Photographer: C Barnes	Date: 4-30-09	Time: 0900 to 1300
City/County: Amelia,		State: LA
Location: Marine Shale Facility		
Subject: Multiple portions of the facility. Bulk unloading area		

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Official Photograph Log



Photographer: C Barnes	Date: 4-30-09	Time: 0900 to 1300
City/County: Amelia,		State: LA
Location: Marine Shale Facility		
Subject: Multiple portions of the facility. Ash & clinker from the incinerator.		

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

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Photographer: C Barnes	Date: 4-30-09	Time: 0900 to 1300
City/County: Amelia,		State: LA
Location: Marine Shale Facility		
Subject: Multiple portions of the facility. Ash & clinker from the incinerator		

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Official Photograph Log



Photographer: C Barnes	Date: 4-30-09	Time: 0900 to 1300
City/County: Amelia,		State: LA
Location: Marine Shale Facility		
Subject: Multiple portions of the facility. Ash & Slag/clinker from the incinerator		

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Official Photograph Log



Photographer: C Barnes	Date: 4-30-09	Time: 0900 to 1300
City/County: Amelia,		State: LA
Location: Marine Shale Facility		
Subject: Multiple portions of the facility.		

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Official Photograph Log



Photographer: C Barnes	Date: 4-30-09	Time: 0900 to 1300
City/County: Amelia,		State: LA
Location: Marine Shale Facility		
Subject: Multiple portions of the facility. Creosote storage area - underwater		

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Official Photograph Log



Photographer: C Barnes	Date: 4-30-09	Time: 0900 to 1300
City/County: Amelia,		State: LA
Location: Marine Shale Facility		
Subject: Multiple portions of the facility.		

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

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Photographer: C Barnes	Date: 4-30-09	Time: 0900 to 1300
City/County: Amelia,		State: LA
Location: Marine Shale Facility		
Subject: Multiple portions of the facility.		

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

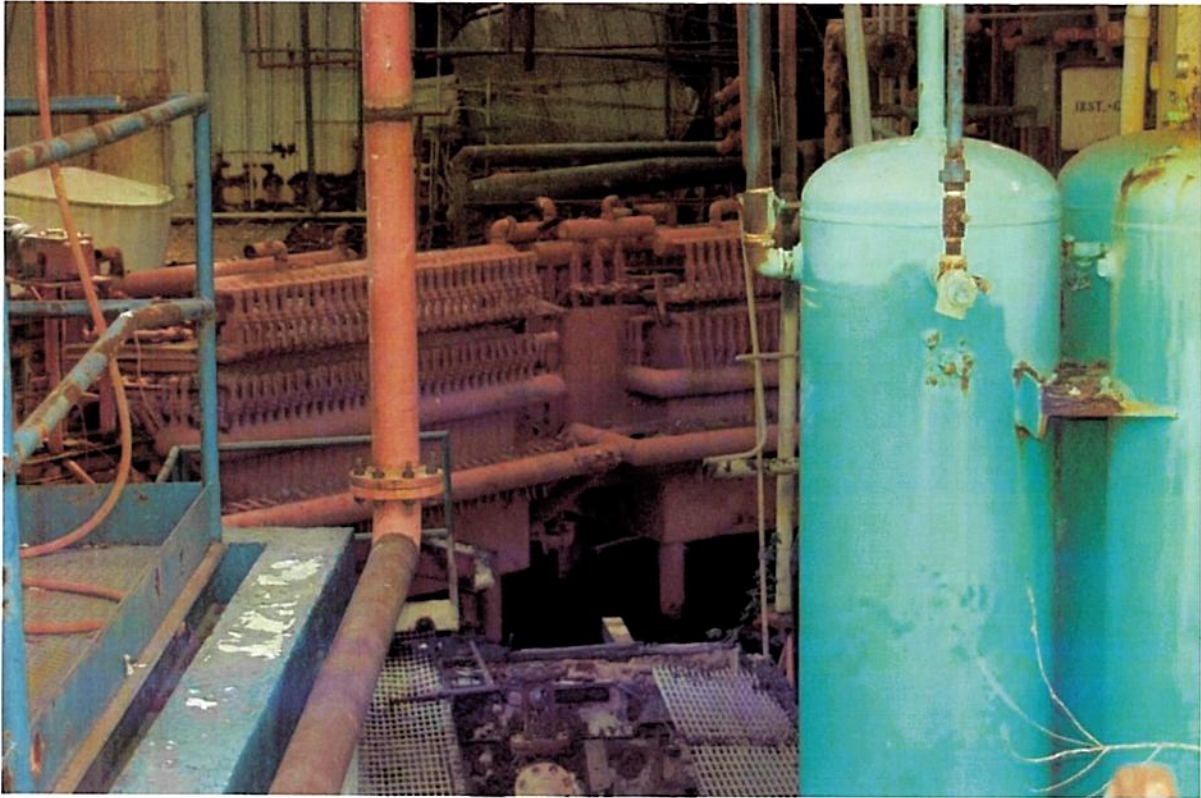
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City/County: Amelia,		State: LA
Location: Marine Shale Facility		
Subject: Multiple portions of the facility.		

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City/County: Amelia,		State: LA
Location: Marine Shale Facility		
Subject: Multiple portions of the facility.		

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Official Photograph Log



Photographer: C Barnes	Date: 4-30-09	Time: 0900 to 1300
City/County: Amelia,		State: LA
Location: Marine Shale Facility		
Subject: Multiple portions of the facility. Hazardous Waste container in bulk unloading area.		

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Official Photograph Log



Photographer: C Barnes	Date: 4-30-09	Time: 0900 to 1300
City/County: Amelia,		State: LA
Location: Marine Shale Facility		
Subject: Multiple portions of the facility. Sludge & liquids in bulk unloading area		

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Official Photograph Log



Photographer: C Barnes	Date: 4-30-09	Time: 0900 to 1300
City/County: Amelia,		State: LA
Location: Marine Shale Facility		
Subject: Multiple portions of the facility.		

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Location: Marine Shale Facility		
Subject: Multiple portions of the facility.		

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Subject: Multiple portions of the facility.		

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Location: Marine Shale Facility		
Subject: Multiple portions of the facility.		

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Location: Marine Shale Facility		
Subject: Multiple portions of the facility.		

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City/County: Amelia,		State: LA
Location: Marine Shale Facility		
Subject: Multiple portions of the facility.		

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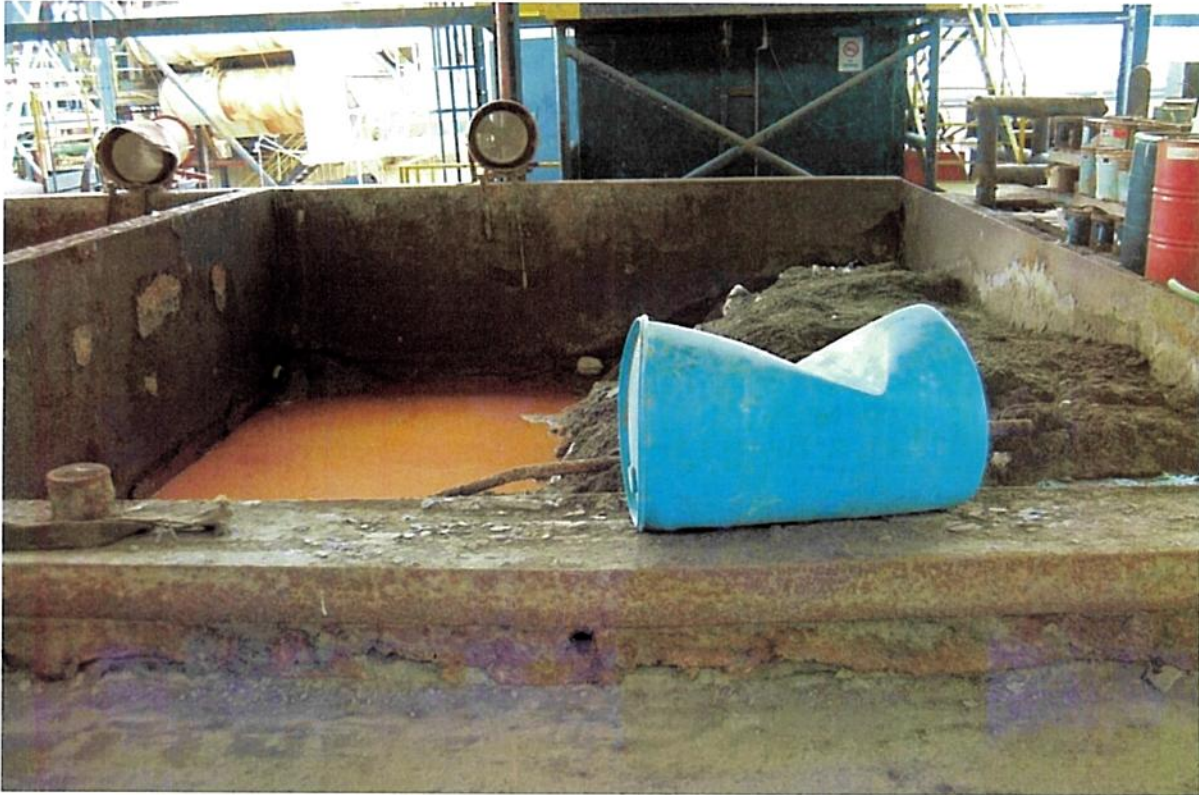
Official Photograph Log



Photographer: C Barnes	Date: 4-30-09	Time: 0900 to 1300
City/County: Amelia,		State: LA
Location: Marine Shale Facility		
Subject: Multiple portions of the facility. Dumpster filled with fire brick – possible radiation issues		

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Official Photograph Log



Photographer: C Barnes	Date: 4-30-09	Time: 0900 to 1300
City/County: Amelia,		State: LA
Location: Marine Shale Facility		
Subject: Multiple portions of the facility.		

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City/County: Amelia,		State: LA
Location: Marine Shale Facility		
Subject: Multiple portions of the facility.		

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Official Photograph Log



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City/County: Amelia,		State: LA
Location: Marine Shale Facility		
Subject: Multiple portions of the facility. Fire Brick potential radiation issues		

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Official Photograph Log



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City/County: Amelia,		State: LA
Location: Marine Shale Facility		
Subject: Multiple portions of the facility.		

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City/County: Amelia,		State: LA
Location: Marine Shale Facility		
Subject: Multiple portions of the facility.		

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City/County: Amelia,		State: LA
Location: Marine Shale Facility		
Subject: Multiple portions of the facility.		

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Subject: Multiple portions of the facility.		

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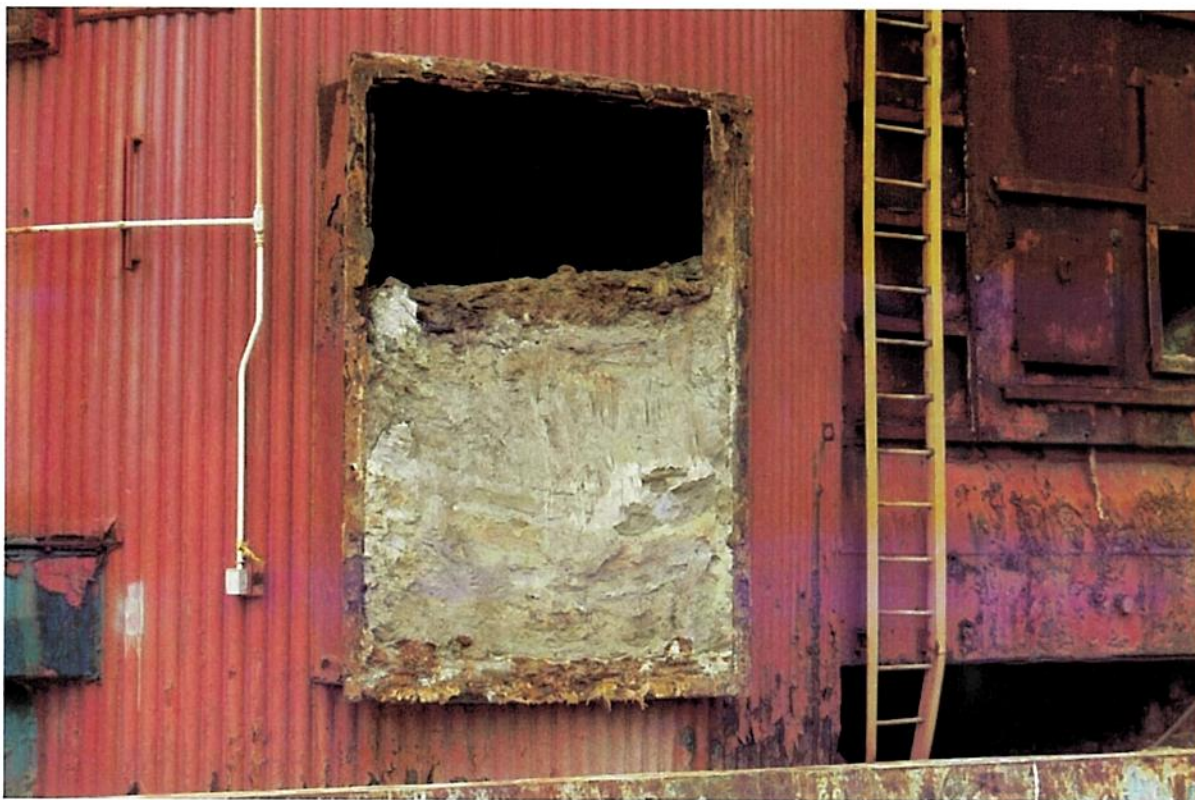
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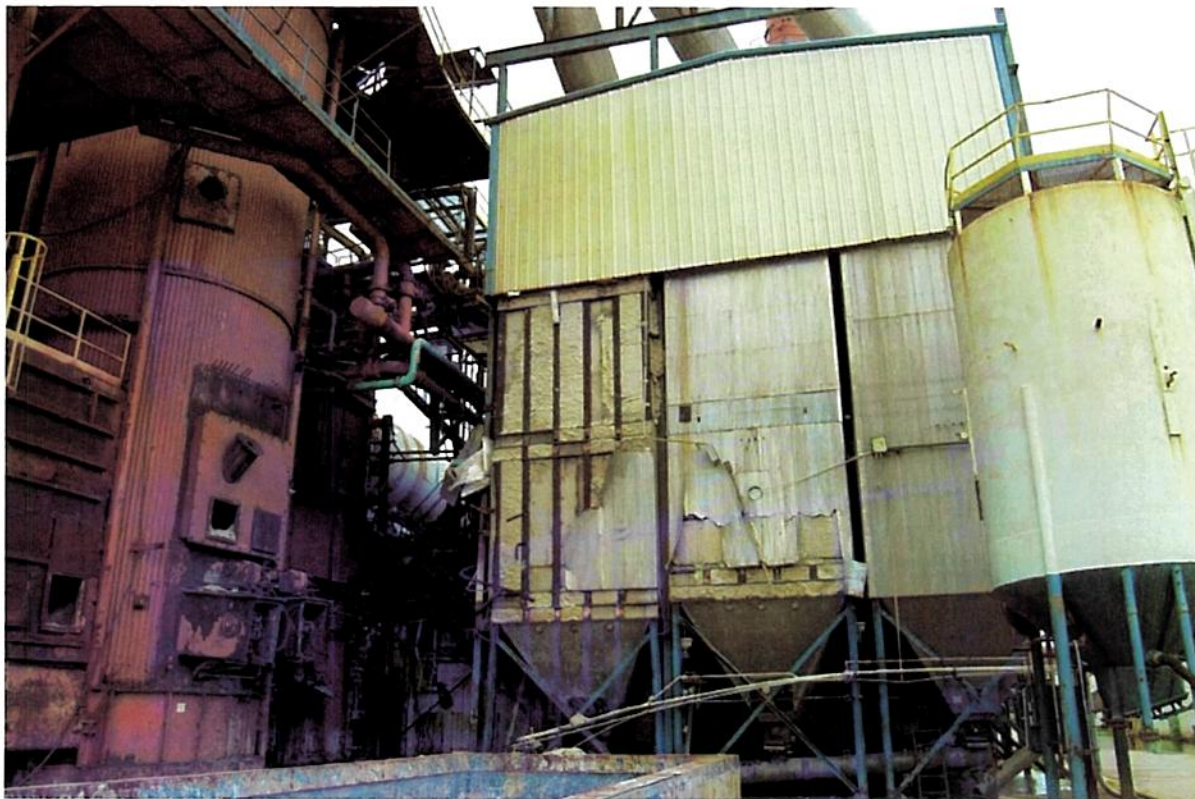
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Photographer: C Barnes	Date: 4-30-09	Time: 0900 to 1300
City/County: Amelia,		State: LA
Location: Marine Shale Facility		
Subject: Multiple portions of the facility. Dust collectors		

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City/County: Amelia,		State: LA
Location: Marine Shale Facility		
Subject: Multiple portions of the facility.		

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

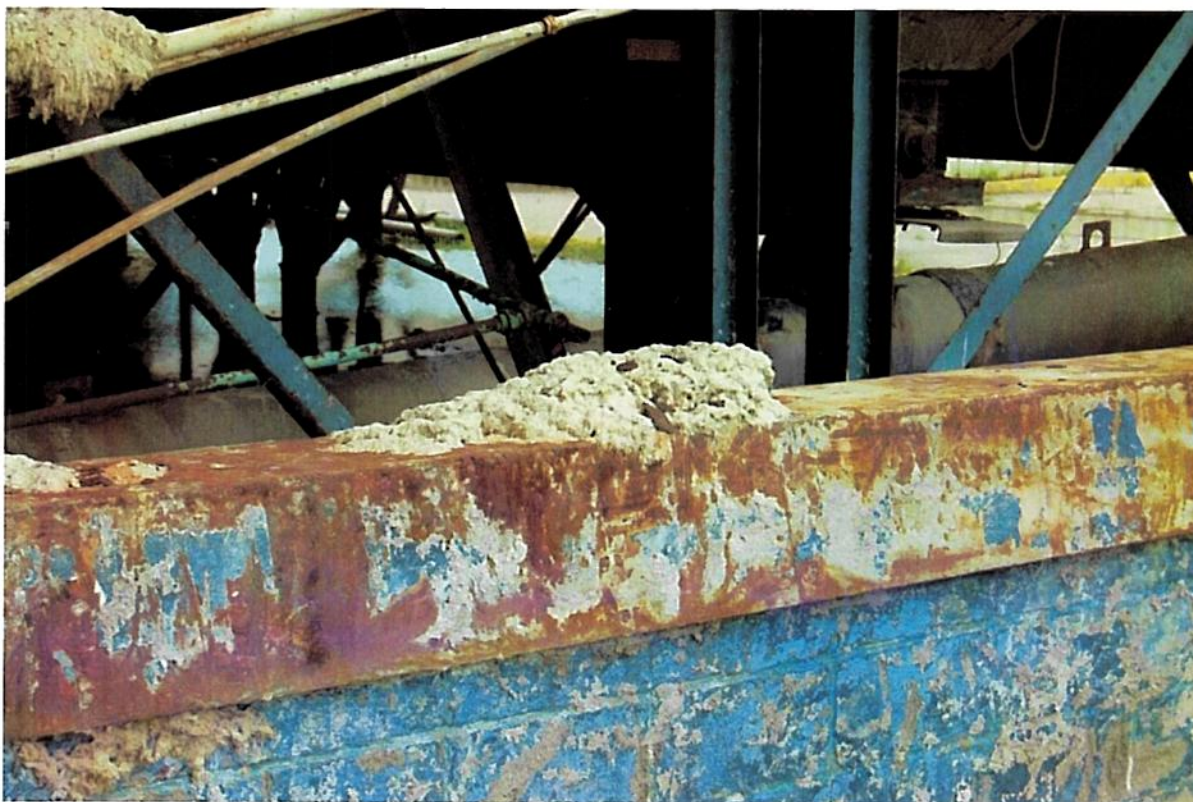
Official Photograph Log



Photographer: C Barnes	Date: 4-30-09	Time: 0900 to 1300
City/County: Amelia,		State: LA
Location: Marine Shale Facility		
Subject: Multiple portions of the facility. Standing water under dust collectors		

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Official Photograph Log



Photographer: C Barnes	Date: 4-30-09	Time: 0900 to 1300
City/County: Amelia,		State: LA
Location: Marine Shale Facility		
Subject: Multiple portions of the facility. Insulation coming out of dust collectors		

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Official Photograph Log



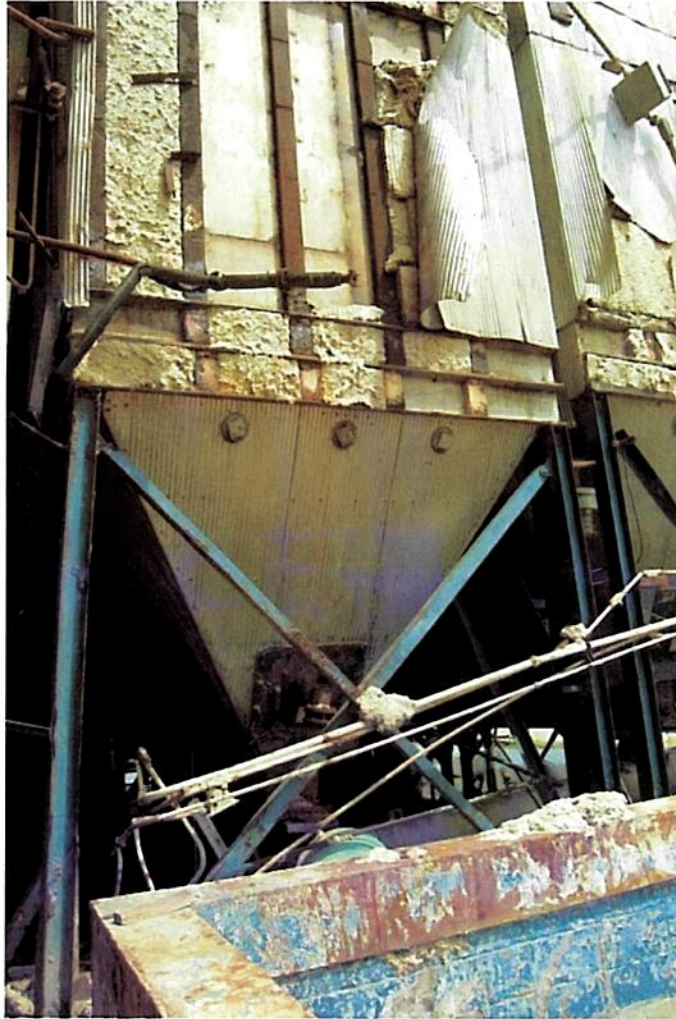
Photographer: C Barnes	Date: 4-30-09	Time: 0900 to 1300
City/County: Amelia,		State: LA
Location: Marine Shale Facility		
Subject: Multiple portions of the facility.		



Photographer: C Barnes	Date: 4-30-09	Time: 0900 to 1300
City/County: Amelia,		State: LA
Location: Marine Shale Facility		
Subject: Multiple portions of the facility.		

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Official Photograph Log



Photographer: C Barnes	Date: 4-30-09	Time: 0900 to 1300
City/County: Amelia,		State: LA
Location: Marine Shale Facility		
Subject: Multiple portions of the facility.		